

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A sensor for recording measuring values in a melt, said sensor can be inserted into a bore of the wall surrounding the cavity which receives the melt, wherein a the sensor is associated with at least one heating device is integrated in the sensor so that at least the part of the sensor which extends into the melt and the part of the sensor which is surrounded by the bore is heated.

2. (Canceled)

3. (Canceled)

4. (Currently amended) The sensor according to claim 1, wherein the heating device is designed to be in the area of the bore surrounding the sensor, ~~preferably in a sleeve which receives the sensor and which can be inserted into the bore.~~

5. (Currently amended) The sensor according to claim 1, wherein at least one control unit is associated with the heating device ~~devices~~ for adjusting the heat output of the heating device.

6. (Currently amended) The sensor according to claim 1, wherein the heating device ~~devices~~ can be heated electrically, inductively or by means of fluids or gases which can be tempered.

7. (Canceled)

8. (Currently amended) The sensor according to claim 5, wherein the heating device is operative to maintain the sensor ~~can be kept~~ at a temperature for the purpose of being exchanged when the melt is solidified.

9. (New) The sensor according to claim 4, wherein the heating device is arranged in a sleeve which can be inserted into the bore.